QCB Bearings

THIN SECTION BEARINGS



QCB's core values...



Warranty

QCB bearings are guaranteed for 12 months after delivery to be free from material defect and manufacturing or assembly error. Any perceived faults should be documented and reported to QCB.

Limitation of Liability

The information in this manual is distilled from best practices, national standards and our own extensive experience.

QCB assumes no liability for damages arising from

- Improper selection of product by the customer
- Failure to follow the instructions and information in this manual
- Improper use of the product
- The use of untrained personnel
- Any modifications to the product as delivered

Cat TS 2024-1 Revision 1

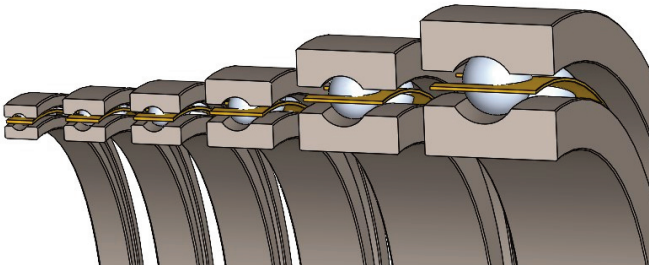
In the interests of continuous product improvement, QCB reserves the right to modify any product or specification. All weights and measures are approximate and for guidance only.

Detailed & up to date information is available from the QCB Technical Department

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QCB Thin Section Bearings

Thin Section Bearings have a constant cross section (Radial thickness & width) regardless of the bore diameter.



This section bearings were developed to cater to the demand for weight reduction and a compact dimension envelope in situations where relatively light loads but larger bore diameters were required to accomodate other systems such as electrical wiring, hydraulic lines or other cabling leading to neater designs.

Applications include:-

- Medical devices
- Indexing tables
- Robotics
- Radar, satellite and communications equipment
- Aircraft instrumentation
- Machine tools

Whilst inch sizes have historically dominated the range, more and more metric sizes are becoming available.

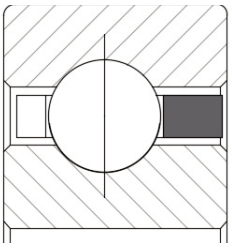
QCB Thin Section Bearings are available in 3 basic designs

- Type C: Radial ball bearings
- Type A: Angular contact ball bearings
- Type X: 4-Point contact ball bearings

The standard range consists of bore sizes from 1"-20" (larger sizes can be considered on enquiry), with cross sections ranging from 3/16" to 1".

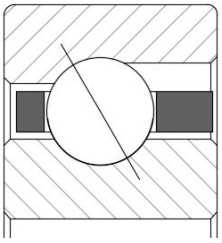
Types C and X can be supplied sealed or shielded.

Type C - Radial ball bearing



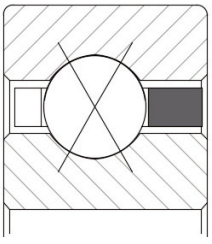
Like any normal deep groove ball bearing, the Type-C radial ball bearing is used to carry predominantly radial loads but it can tolerate small axial loads in either direction. Used in pairs a moment load can be carried.

Type A - Angular contact bearing



The Type-A bearing exhibits a 30 degree contact angle to maximise axial load capacity. Like other angular contact bearings they can be mounted face-to-face, back-to-back or even in tandemwhen mounted opposed to another bearing.

Type X - 4-Point contact bearing



A "Gothic Arch" style raceway creates 4 points of contact between the ball and raceway. This is ideal for moment loads and light axial loads. Combined loads may limit operational speed.

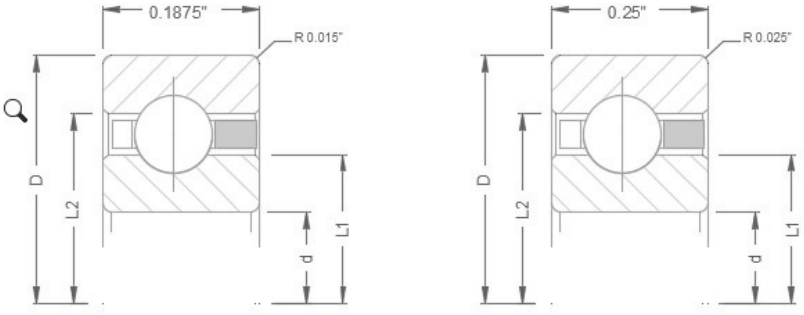
QCB Thin Section Bearings are an exciting additon to the growing QCB portfolio of products which includes slewing rings, slewing drives & ball and roller bearings..

QCB Numbering System

Q	C	120	C	P	0	-	A	
							UNMOUNTED RADIAL CLEARANCE	
							A	0.0000" - 0.0005" CLEARANCE
							B	0.0000" - 0.0010" CLEARANCE
							C	0.0005" - 0.0010" CLEARANCE
							D	0.0005 " - 0.0015" CLEARANCE
							K	0.0000" - 0.0005" PRELOAD
							L	0.0000" - 0.0010" PRELOAD
							M	0.0005" - 0.0010" PRELOAD
						SEAL STRUCTURE		
						-	UNSEALED	
						R	SINGLE BUNA-N SEAL, STEEL REINFORCED	
						2R	DOUBLE BUNA-N SEAL, STEEL REINFORCED	
						Z	SINGLE SHIELD	
						2Z	DOUBLE SHIELD	
					PRECISION CLASS			
					0	ABEC 1		
					3	ABEC 3		
					5	ABEC 5		
					7	ABEC 7		
				SEPARATOR DESIGN				
				P	BRASS SNAPOVER RETAINER (TYPES C & X)			
				R	BRASS POCKET STYLE RETAINER (TYPE A)			
			BEARING DESIGN					
			C	RADIAL BALL BEARING				
			A	ANGULAR CONTACT BALL BEARING				
			X	4-POINT CONTACT BALL BEARING				
		BORE DIAMETER						
		120	12"					
	BEARING CROSS SECTION							
	AA	0.1875" x 0.1875"						
	A	0.25" x 0.25 "						
	B	0.3125" x 0.3125"						
	C	0.375" x 0.375"						
	D	0.5" x 0.5"						
	F	0.75" x 0.75"						
	G	1" x 1"						
MATERIAL								
Q	AISI 52100 CHROME STEEL							
S	AISI 440 STAINLESS STEEL							

QAA / QA CPO series

0.1875” & 0.250” Radial ball bearings



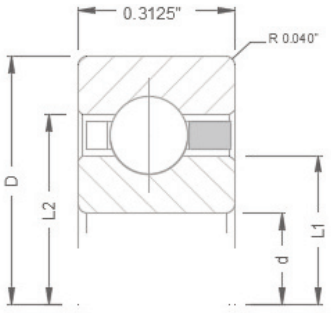
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QAA 010 CPO	1.000 25.4	1.375 34.925	1.142 29.0	1.236 31.4	1290	670	0.012
QAA 015 CPO	1.500 38.1	1.875 47.625	1.642 41.7	1.736 44.1	1780	800	0.018
QA 020 CPO	2.000 50.8	2.500 63.5	2.186 55.5	2.134 58.8	3020	1420	0.048
QA 025 CPO	2.500 63.5	3.000 76.2	2.686 68.2	2.814 71.5	3690	1600	0.059
QA 030 CPO	3.000 76.2	3.500 88.9	3.186 80.9	3.314 84.2	4400	1820	0.068
QA 035 CPO	3.500 88.9	4.000 101.6	3.686 93.6	3.814 96.9	5070	2000	0.082
QA 040 CPO	4.000 101.6	4.500 114.3	4.186 106.3	4.314 109.6	5730	2130	0.090
QA 042 CPO	4.250 107.95	4.150 120.65	4.436 112.7	4.564 115.9	6090	2220	0.095
QA 045 CPO	4.500 114.3	5.000 127.0	4.686 119.0	4.814 122.3	6400	2310	0.100
QA 047 CPO	4.750 120.65	5.250 133.35	4.936 125.4	5.064 128.6	6760	2400	0.104
QA 050 CPO	5.000 127.0	5.500 139.7	5.186 131.7	5.314 135.0	7070	2490	0.109
QA 055 CPO	5.500 139.7	6.000 152.4	5.686 144.4	5.814 147.7	7780	2620	0.1148
QA 060 CPO	6.000 152.4	6.500 165.1	6.186 157.1	6.314 160.4	8450	2800	0.130
QA 065 CPO	6.500 165.1	7.000 177.8	6.686 169.8	6.814 173.1	9110	2930	0.140
QA 070 CPO	7.000 177.8	7.500 190.5	7.186 182.5	7.314 185.8	9780	3070	0.150
QA 075 CPO	7.500 190.5	8.000 203.2	7.686 195.2	7.814 198.5	10450	3200	0.160
QA 080 CPO	8.000 203.2	8.500 215.9	8.186 207.9	8.314 211.2	11110	3330	0.172
QA 090 CPO	9.000 228.6	9.500 241.3	9.186 2333.3	9.314 236.6	12490	3600	0.200
QA 100 CPO	10.000 254.0	10.500 266.7	10.186 258.7	10.314 262.0	13820	3870	0.227
QA 110 CPO	11.000 279.4	11.500 292.1	11.186 284.1	11.314 287.4	15160	4130	0.236
QA 120 CPO	12.000 304.8	12.500 317.5	12.186 309.5	12.314 312.8	16540	4360	0.254

Normally imported as QA 050 CPOA (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.000-0.005” internal clearance)

Equivalent to KAYDON KAA / KA CPO Series or SILVERTHIN SAA / SA CPO Series

QB CPO Series

0.3125” Radial ball bearings



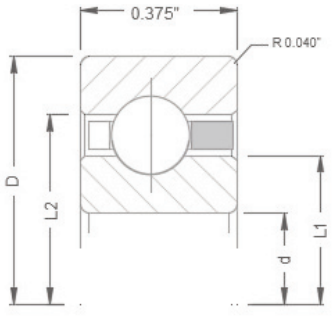
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QB 020 CPO	2.000 50.8	2.625 66.675	2.231 56.7	2.393 60.8	4130	2000	0.073
QB 025 CPO	2.500 63.5	3.125 79.375	2.731 69.4	2.893 73.5	5070	2310	0.091
QB 030 CPO	3.000 76.2	3.625 92.075	3.231 82.1	3.393 86.2	5960	2580	0.109
QB 035 CPO	3.500 88.9	4.125 104.775	3.731 94.8	3.893 98.9	6850	2800	0.125
QB 040 CPO	4.000 101.6	4.625 117.475	4.231 107.5	4.393 111.6	7780	3070	0.140
QB 042 CPO	4.250 107.95	4.875 123.825	4.481 113.8	4.643 117.9	8130	3160	0.147
QB 045 CPO	4.500 114.3	5.125 130.175	4.731 120.2	4.893 124.3	8670	3290	0.160
QB 047 CPO	4.750 120.65	5.375 136.525	4.981 126.6	5.143 130.6	9020	3380	0.163
QB 050 CPO	5.000 127	5.625 142.875	5.231 132.9	5.393 137.0	9650	3510	0.172
QB 055 CPO	5.500 139.7	6.125 155.575	5.731 145.6	5.893 149.7	10490	3730	0.186
QB 060 CPO	6.000 152.4	6.625 168.275	6.231 158.3	6.393 162.4	11380	3960	0.205
QB 065 CPO	6.500 165.1	7.125 180.975	6.731 171.0	6.893 175.1	12270	4130	0.216
QB 070 CPO	7.000 177.8	7.625 193.675	7.231 183.7	7.393 187.8	13200	4360	0.232
QB 075 CPO	7.500 190.5	8.125 206.375	7.731 196.4	7.893 200.5	14090	4530	0.250
QB 080 CPO	8.000 203.2	8.625 219.075	8.231 209.1	8.393 213.2	14980	4760	0.262
QB 090 CPO	9.000 228.6	9.625 244.475	9.231 234.5	9.393 238.6	16800	5110	0.300
QB 100 CPO	10.000 254	10.625 169.875	10.231 259.9	10.393 264.0	18620	5470	0.331
QB 110 CPO	11.000 279.4	11.625 295.275	11.231 285.3	11.393 289.4	20400	5820	0.360
QB 120 CPO	12.000 304.8	12.625 320.675	12.231 310.7	12.393 314.8	22230	6180	0.390
QB 140 CPO	14.000 355.6	14.625 371.475	14.231 361.5	14.393 365.6	25830	6800	0.476
QB 160 CPO	16.000 406.4	16.625 422.275	16.231 412.3	16.393 416.3	29430	7420	0.544
QB 180 CPO	18.000 457.2	18.625 437.075	18.231 463.1	18.393 467.2	33070	8050	0.612
QB 200 CPO	20.000 508	20.625 523.875	20.231 513.9	20.393 518.0	36670	8620	0.680

Normally imported as QB 050 CPOA (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.000-0.005” internal clearance)

Equivalent to KAYDON KB CPO Series or SILVERTHIN SB CPO Series

QC CPO Series

0.3725” Radial ball bearings



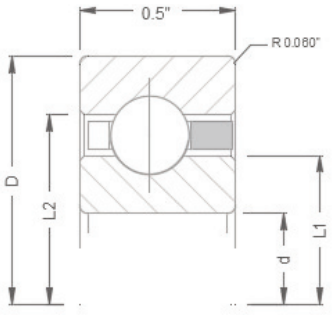
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QC 040 CPO	4.000 101.6	4.750 120.65	4.277 108.6	4.473 113.6	9330	3910	0.204
QC 042 CPO	4.250 107.95	5.000 127.0	4.527 115.0	4.723 120.0	9780	4090	0.213
QC 045 CPO	4.500 114.3	5.250 133.35	4.777 121.3	4.937 126.3	10400	4220	0.225
QC 047 CPO	4.750 120.65	5.000 139.7	5.027 127.7	5.223 132.7	10930	4360	0.235
QC 050 CPO	5.000 127	5.750 146.05	5.277 134.0	547.3 139.0	11510	4490	0.263
QC 055 CPO	5.500 139.7	6.250 158.75	5.777 146.7	5.973 151.7	12580	4800	0.268
QC 060 CPO	6.000 152.4	6.750 171.45	6.277 159.4	6.473 164.4	13650	5070	0.295
QC 065 CPO	6.500 165.1	7.250 184.15	6.777 172.1	6.937 177.1	14710	5330	0.312
QC 070 CPO	7.000 177.8	7.750 196.85	7.277 184.8	7.473 189.8	15780	5560	0.340
QC 075 CPO	7.500 190.5	8.250 209.55	7.777 197.5	7.973 202.5	16850	5820	0.360
QC 080 CPO	8.000 203.2	8.750 222.25	8.277 210.2	8.473 215.2	17910	6050	0.387
QC 090 CPO	9.000 228.6	9.750 247.65	9.277 235.6	9.473 240.6	20050	6530	0.450
QC 100 CPO	10.000 254	10.750 273.05	10.277 261.0	10.473 266.0	22180	6980	0.481
QC 110 CPO	11.000 279.4	11.750 298.45	11.277 286.4	11.473 291.4	24310	7420	0.526
QC 120 CPO	12.000 304.8	12.750 323.85	112.277 311.8	12.473 316.8	26450	7870	0.567
QC 140 CPO	14.000 355.6	14.750 374.65	14.277 362.6	14.473 367.6	30720	8670	0.689
QC 160 CPO	16.000 406.4	16.750 425.45	16.277 413.4	14.473 418.4	35030	9470	0.785
QC 180 CPO	18.000 457.2	18.750 476.25	18.277 464.2	18.473 469.2	39290	10220	0.880
QC 200 CPO	20.000 508	70.750 527.05	20.277 515.0	20.473 520.0	43560	10980	0.980

Normally imported as QC 050 CPOA (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.000-0.005” internal clearance)

Equivalent to KAYDON KC CPO Series or SILVERTHIN SC CPO Series

QD CPO Series

0.500” Radial ball bearings



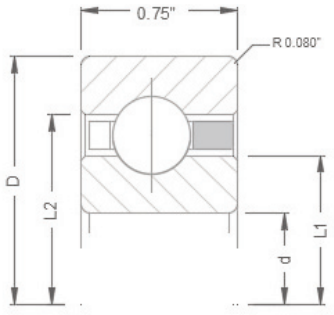
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QD 040 CPO	4.000 101.6	5.000 127	4.370 111.0	4.630 117.6	13690	6270	0.366
QD 042 CPO	4.250 107.95	5.250 133.35	4.620 117.3	4.880 124.0	14180	6400	0.386
QD 045 CPO	4.500 114.3	5.500 139.7	4.870 123.7	5.130 130.3	15200	6710	0.405
QD 047 CPO	4.750 120.65	5.750 146.05	5.120 130.0	5.380 136.7	15900	6850	0.426
QD 050 CPO	5.000 127	6.000 152.4	5.370 136.4	5.630 143.0	16710	7160	0.454
QD 055 CPO	5.500 139.7	6.500 165.1	5.870 149.1	6.130 155.7	18230	7560	0.485
QD 060 CPO	6.000 152.4	7.000 177.8	6.370 161.8	6.630 168.4	19780	8000	0.526
QD 065 CPO	6.500 165.1	7.500 190.5	6.870 174.5	7.130 181.1	21290	8400	0.566
QD 070 CPO	7.000 177.8	8.000 203.2	7.370 187.2	7.630 193.8	22800	8800	0.606
QD 075 CPO	7.500 190.5	8.500 215.9	7.870 199.9	8.130 206.5	24310	9160	0.650
QD 080 CPO	8.000 203.2	9.000 228.6	8.370 212.6	8.630 279.2	25830	9560	0.694
QD 090 CPO	9.000 228.6	10.000 254.0	9.370 238.00	9.630 244.6	28890	10310	0.780
QD 100 CPO	10.000 254	11.000 278.4	10.370 236.4	10.630 270.0	31920	10980	0.853
QD 110 CPO	11.000 279.4	12.000 304.8	11.370 288.8	11.630 295.4	34980	11690	0.934
QD 120 CPO	12.000 304.8	13.000 330.2	12.370 314.2	12.630 320.8	38010	12360	1.020
QD 140 CPO	14.000 355.6	15.000 381.0	14.370 365.0	14.630 371.6	44090	13650	1.240
QD 160 CPO	16.000 406.4	17.000 431.8	16.370 415.8	16.630 422.4	50180	14890	1.410
QD 180 CPO	18.000 457.2	19.000 482.6	18.370 466.6	18.630 473.2	56230	16050	1.580
QD 200 CPO	20.000 508	21.000 533.4	20.370 517.4	20.630 524.0	62320	17200	1.750

Normally imported as QD 050 CPOA (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.000-0.005” internal clearance)

Equivalent to KAYDON KD CPO Series or SILVERTHIN SD CPO Series

QF CPO Series

0.75” Radial ball bearings



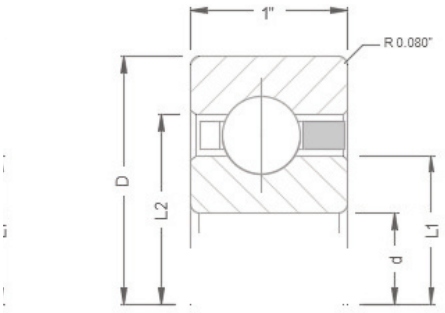
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QF 040 CPO	4.000 101.6	5.500 139.7	4.555 115.7	4.945 125.6	23830	12130	0.875
QF 042 CPO	4.250 107.95	5.750 146.05	4.805 122.0	5.195 132.0	25070	12580	0.930
QF 045 CPO	4.500 114.3	6.000 152.4	5.055 128.4	5.445 138.3	26360	12980	0.975
QF 047 CPO	4.750 120.65	6.250 158.75	5.305 134.7	5.695 14407	27600	13380	1.040
QF 050 CPO	5.000 127	6.500 165.1	5.555 141.1	5.945 151.0	28850	13780	1.090
QF 055 CPO	5.500 139.7	7.000 177.8	6.055 153.8	6.445 163.7	31340	14580	1.180
QF 060 CPO	6.000 152.4	7.500 190.5	6.555 166.5	6.945 176.4	33870	15340	1.240
QF 065 CPO	6.500 165.1	8.000 203.2	7.055 179.2	7.445 189.1	36360	16090	1.350
QF 070 CPO	7.000 177.8	8.500 215.9	7.555 191.9	7.945 201.8	38890	16850	1.450
QF 075 CPO	7.500 190.5	9.000 228.6	8.055 204.6	8.445 214.5	41380	17560	1.560
QF 080 CPO	8.000 203.2	9.500 241.3	8.555 217.3	8.945 227.2	43920	18230	1.660
QF 090 CPO	9.000 228.6	10.500 266.7	9.555 242.7	9.945 252.6	48900	19600	1.810
QF 100 CPO	10.000 254	11.500 292.1	10.555 268.1	10.945 278.0	53920	20940	2.020
QF 110 CPO	11.000 279.4	12.500 317.5	11.555 293.5	11.945 303.4	58940	22230	2.180
QF 120 CPO	12.000 304.8	13.500 342.9	12.555 318.9	12.945 328.8	63960	23470	2.380
QF 140 CPO	14.000 355.6	15.500 393.7	14.555 369.7	14.945 379.6	74010	25830	2.720
QF 160 CPO	16.000 406.4	17.500 444.5	16.555 420.5	16.345 430.4	84010	28140	3.220
QF 180 CPO	18.000 457.2	19.500 495.3	18.555 471.3	18.945 481.2	94060	30320	3.580
QF 200 CPO	20.000 508	21.500 546.1	20.555 522.1	20.945 532.0	104100	32450	4.040

Normally imported as QF 050 CPOA (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.000-0.005” internal clearance)

Equivalent to KAYDON KF CPO Series or SILVERTHIN SF CPO Series

QG CPO Series

1” Radial ball bearings



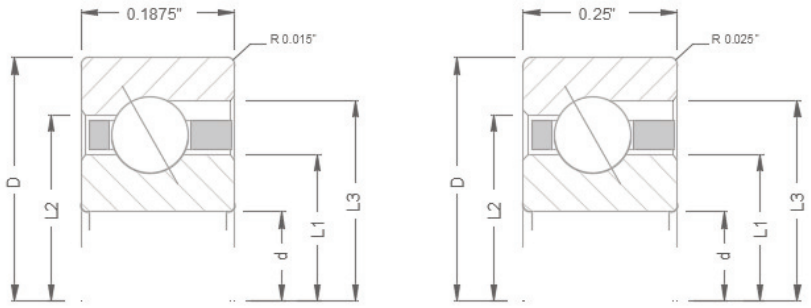
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QG 040 CPO	4.000 101.6	6.000 152.4	4.742 120.4	5.258 133.6	34690	20000	1.650
QG 042 CPO	4.250 107.95	6.250 158.75	4.992 126.8	5.508 139.9	36490	20000	1.750
QG 045 CPO	4.500 114.3	6.500 165.1	5.242 133.1	5.785 146.3	38940	20900	1.810
QG 047 CPO	4.750 120.65	6.750 171.45	5.492 139.5	6.008 152.6	41340	21740	1.910
QG 050 CPO	5.000 127	7.000 177.8	5.742 145.8	6.258 159.0	43780	22580	2.020
QG 055 CPO	5.500 139.7	7.500 190.5	6.242 158.5	6.758 171.7	46230	23430	2.170
QG 060 CPO	6.000 152.4	8.000 203.2	6.742 171.2	7.258 184.4	51070	25030	2.310
QG 065 CPO	6.500 165.1	8.500 215.9	7.242 183.9	7.758 197.1	53520	25830	2.470
QG 070 CPO	7.000 177.8	9.000 228.6	7.742 196.6	8.258 209.8	58360	27380	2.670
QG 075 CPO	7.500 190.5	9.500 241.3	8.242 209.3	8.758 222.5	60810	28140	2.830
QG 080 CPO	8.000 203.2	10.000 254.0	8.742 222.0	9.258 235.2	65650	29600	3.000
QG 090 CPO	9.000 228.6	11.000 279.4	9.742 247.4	10.258 260.6	72990	31780	3.300
QG 100 CPO	10.000 254	12.000 304.8	10.742 272.8	11.258 286.0	80280	33870	3.650
QG 110 CPO	11.000 279.4	13.000 330.2	111.742 298.2	12.258 311.4	87570	35870	3.960
QG 120 CPO	12.000 304.8	14.000 355.6	12.742 323.6	13.258 336.8	94860	37830	4.320
QG 140 CPO	14.000 355.6	16.300 406.4	14.742 374.4	15.258 387.6	109440	41600	4.960
QG 160 CPO	16.000 406.4	18.000 457.2	16.742 425.2	17.258 438.4	124060	45250	5.650
QG 180 CPO	18.000 457.2	20.000 508.0	18.742 476.0	19.258 489.2	138640	48720	6.280
QG 200 CPO	20.000 508	22.000 558.8	20.742 526.8	21.258 540.0	153220	52100	7.530

Normally imported as QG 050 CPOA (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.000-0.005” internal clearance)

Equivalent to KAYDON KG CPO Series or SILVERTHIN SG CPO Series

QAA / QA ARO series

0.1875” & 0.250” Angular contact ball bearings



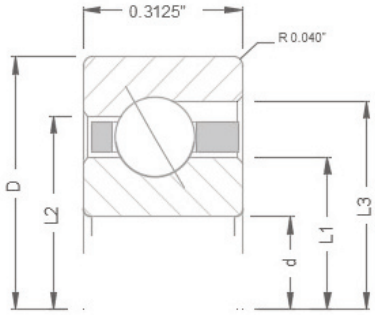
QCB reference	Dimensions					Load ratings				Weight
	d	D	L1	L2	L3	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QAA 010 ARO	1.000 25.4	1.375 34.925	1.142 29.0	1.236 31.4	1.274 32.4	1510	670	4310	2000	0.011
QAA 015 ARO	1.500 38.1	1.875 47.625	1.642 41.7	1.736 44.1	1.774 45.1	2130	890	6130	3250	0.017
QA 020 ARO	2.000 50.8	2.500 63.5	2.186 55.5	2.134 58.8	2.369 60.2	3510	1470	10140	4270	0.045
QA 025 ARO	2.500 63.5	3.000 76.2	2.686 68.2	2.814 71.5	2.869 72.9	4270	1690	12360	4890	0.054
QA 030 ARO	3.000 76.2	3.500 88.9	3.186 80.9	3.314 84.2	3.367 85.6	5070	1910	14620	5470	0.064
QA 035 ARO	3.500 88.9	4.000 101.6	3.686 93.6	3.814 96.9	2.867 98.2	5830	20990	16850	6000	0.077
QA 040 ARO	4.000 101.6	4.500 114.3	4.186 106.3	4.314 109.6	4.367 110.9	6630	2270	19110	6530	0.086
QA 042 ARO	4.250 107.95	4.150 120.65	4.436 112.7	4.564 115.9	4.615 117.2	7020	2360	20230	6800	0.091
QA 045 ARO	4.500 114.3	5.000 127.0	4.686 119.0	4.814 122.3	4.865 123.6	7380	2450	21380	7020	0.095
QA 047 ARO	4.750 120.65	5.250 133.35	4.936 125.4	5.064 128.6	5.115 129.9	7780	2530	22490	7290	0.100
QA 050 ARO	5.000 127.0	5.500 139.7	5.186 131.7	5.314 135.0	5.365 136.3	8180	2620	23600	7510	0.104
QA 055 ARO	5.500 139.7	6.000 152.4	5.686 144.4	5.814 147.7	5.863 148.9	8980	2760	25870	8000	0.113
QA 060 ARO	6.000 152.4	6.500 165.1	6.186 157.1	6.314 160.4	6.363 161.6	9740	2930	28090	8450	0.127
QA 065 ARO	6.500 165.1	7.000 177.8	6.686 169.8	6.814 173.1	6.816 172.3	10540	3070	30360	8890	0.136
QA 070 ARO	7.000 177.8	7.500 190.5	7.186 182.5	7.314 185.8	7.361 187.0	11290	3250	32630	9340	0.145
QA 078 ARO	7.500 190.5	8.000 203.2	7.686 195.2	7.814 198.5	7.861 199.7	12090	3380	34850	9740	0.154
QA 080 ARO	8.000 203.2	8.500 215.9	8.186 207.9	8.314 211.2	8.359 212.3	12850	3510	37120	10140	0.163
QA 090 ARO	9.000 228.6	9.500 241.3	9.186 2333.3	9.314 236.6	9.357 237.7	14400	3780	41610	10980	0.186
QA 100 ARO	10.000 254.0	10.500 266.7	10.186 258.7	10.314 262.0	10.355 263.0	15960	4050	46100	11740	0.204
QA 110 ARO	11.000 279.4	11.500 292.1	11.186 284.1	11.314 287.4	11.353 288.4	17510	4310	50580	12490	0.227
QA 120 ARO	12.000 304.8	12.500 317.5	12.186 309.5	12.314 312.8	12.349 313.7	19070	4580	55070	13200	0.245

Normally imported as QA 050 ARO (AISI 52100 steel; Brass pocket style cage, ABEC 1)

Equivalent to KAYDON KA / KAA ARO Series or SILVERTHIN SA / SAA ARO Series

QB ARO Series

0.3125” Angular contact ball bearings



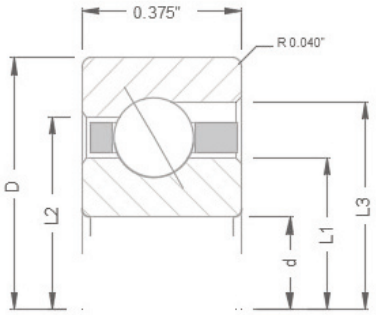
QCB reference	Dimensions					Load ratings				Weight
	d	D	L1	L2	L3	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QB 020 ARO	2.000 50.8	2.625 66.675	2.231 56.7	2.393 60.8	2.464 62.6	4850	2130	14000	6130	0.068
QB 025 ARO	2.500 63.5	3.125 79.375	2.731 69.4	2.893 73.5	2.964 75.3	5960	2450	17160	7070	0.086
QB 030 ARO	3.000 76.2	3.625 92.075	3.231 82.1	3.393 86.2	3.462 87.9	6890	2710	19870	7780	0.100
QB 035 ARO	3.500 88.9	4.125 104.775	3.731 94.8	3.893 98.9	3.962 100.6	7960	2980	23030	8580	0.122
QB 040 ARO	4.000 101.6	4.625 117.475	4.231 107.5	4.393 111.6	4.460 113.3	9070	3250	26180	9340	0.136
QB 042 ARO	4.250 107.95	4.875 123.825	4.481 113.8	4.643 117.9	4.710 119.6	9560	3330	27650	9650	0.141
QB 045 ARO	4.500 114.3	5.125 130.175	4.731 120.2	4.893 124.3	4.960 126.0	10000	3470	28890	9960	0.154
QB 047 ARO	4.750 120.65	5.375 136.525	4.981 126.6	5.143 130.6	5.210 132.3	10620	3600	30720	10400	0.159
QB 050 ARO	5.000 127.0	5.625 142.875	5.231 132..9	5.393 137.0	5.460 138.7	11110	3690	32050	10710	0.168
QB 055 ARO	5.500 139.7	6.125 155.575	5.731 145.6	5.893 149.7	5.958 151.3	12180	3960	35200	11380	0.181
QB 060 ARO	6.000 152.4	6.625 168.275	6.231 158.3	6.393 162.4	6.458 164.0	13290	4180	38360	12050	0.200
QB 065 ARO	6.500 165.1	7.125 180.975	6.731 171.0	689.3 175.1	6.958 176.7	14220	4360	41070	12620	0.213
QB 070 ARO	7.000 177.8	7.625 193.675	7.231 183.7	7.393 187.8	7.456 189.4	15340	4580	44270	13250	0.227
QB 075 ARO	7.500 190.5	8.125 206.375	7.731 196.4	7.893 200.5	7.955 201.1	16450	4800	47430	13870	0.245
QB 080 ARO	8.000 203.2	8.625 219.075	8.231 209.1	8.393 213.2	8.453 214.7	17510	5020	50580	14490	0.259
QB 090 ARO	9.000 228.6	9.625 244.475	9.231 234.5	9.393 238.6	9.451 240.0	19560	5420	56450	15600	0.290
QB 100 ARO	10.000 254.0	10.625 269.875	10.231 259.9	10.393 264.0	10.449 265.4	21740	5780	62760	16710	0.322
QB 110 ARO	11.000 279.4	11.625 295.275	11.231 285.3	11.393 289.4	11.447 290.8	23780	6130	68630	17780	0.354
QB 120 ARO	12.000 304.8	12.625 320.675	12.231 310.7	12.393 314.8	12.445 316.1	25960	6530	74940	18850	0.386
QB 140 ARO	14.000 355.6	14.625 371.475	14.231 361.5	14.393 365.6	14.439 366.8	30050	7200	86680	20760	0.445
QB 160 ARO	16.000 406.4	16.625 422.275	16.231 412.3	16.393 416.4	16.433 417.4	34270	7870	98900	22670	0.509
QB 180 ARO	18.000 457.2	18.625 437.075	18.231 463.1	18.393 467.2	18.425 468.0	38490	8490	111080	24490	0.572
QB 200 ARO	20.000 508.0	20.625 523.875	20.231 513.9	20.393 518.0	20.416 518.6	42720	9110	123620	26230	0.635

Normally imported as QB 050 ARO (AISI 52100 steel; Brass pocket style cage, ABEC 1)

Equivalent to KAYDON KB ARO Series or SILVERTHIN SB ARO Series

QC ARO Series

0.3725” Angular contact ball bearings



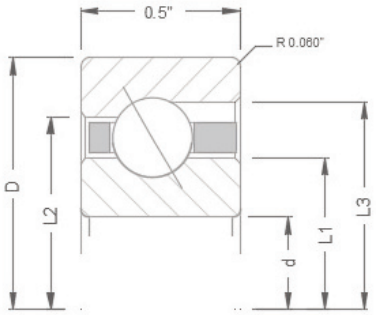
QCB reference	Dimensions					Load ratings				Weight
	d	D	L1	L2	L3	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QC 040 ARO	4.000 101.6	4.750 120.65	4.277 108.6	4.473 113.6	4.554 115.7	11340	4270	32720	12310	0.200
QC 042 ARO	4.250 107.95	5.000 127.0	4.527 115.0	4.723 120.0	4.804 122.0	12050	4450	34760	12800	0.209
QC 045 ARO	4.500 114.3	5.250 133.35	4.777 121.3	4.937 126.3	5.052 128.3	12710	4620	36760	13290	0.222
QC 047 ARO	4.750 120.65	5.000 139.7	5.027 127.7	5.223 132.7	5.302 134.7	13420	4760	38760	13780	0.231
QC 050 ARO	5.000 127	5.750 146.05	5.277 134.0	547.3 139.0	5.552 141.0	14140	4930	40760	14220	0.245
QC 055 ARO	5.500 139.7	6.250 158.75	5.777 146.7	5.973 151.7	6.052 153.7	15290	5200	44090	14980	0.263
QC 060 ARO	6.000 152.4	6.750 171.45	6.277 159.4	6.473 164.4	6.550 166.4	16670	5510	48100	15910	0.290
QC 065 ARO	6.500 165.1	7.250 184.15	6.777 172.1	6.937 177.1	7.050 179.0	18050	5820	52100	16760	0.308
QC 070 ARO	7.000 177.8	7.750 196.85	7.277 184.8	7.473 189.8	7.550 191.8	19200	6050	55430	17490	0.336
QC 075 ARO	7.500 190.5	8.250 209.55	7.777 197.5	7.973 202.5	8.048 204.4	20580	6360	59470	18310	0.354
QC 080 ARO	8.000 203.2	8.750 222.25	8.277 210.2	8.473 215.2	8.548 217.1	22010	6620	63480	19110	0.381
QC 090 ARO	9.000 228.6	9.750 247.65	9.277 235.6	9.473 240.6	9.546 242.5	24540	7110	70810	20580	0.445
QC 100 ARO	10.000 254	10.750 273.05	10.277 261.0	10.473 266.0	10.544 267.8	27290	7650	78810	22090	0.472
QC 110 ARO	11.000 279.4	11.750 298.45	11.277 286.4	11.473 291.4	11.542 293.2	29780	8130	86190	23470	0.517
QC 120 ARO	12.000 304.8	12.750 323.85	112.277 311.8	12.473 316.8	12.540 318.5	32400	8580	93520	24800	0.558
QC 140 ARO	14.000 355.6	14.750 374.65	14.277 362.6	14.473 367.6	14.535 369.2	37740	9510	108900	27430	0.649
QC 160 ARO	16.000 406.4	16.750 425.45	16.277 413.4	14.473 418.4	16.529 419.8	43030	10360	124240	29920	0.739
QC 180 ARO	18.000 457.2	18.750 476.25	18.277 464.2	18.473 469.2	18.523 470.5	48360	11200	139620	32360	0.830
QC 200 ARO	20.000 508.0	70.750 527.05	20.277 515.0	20.473 520.0	20.517 521.1	53470	11960	154330	34580	0.921

Normally imported as QC 050 ARO (AISI 52100 steel; Brass pocket style cage, ABEC 1)

Equivalent to KAYDON KC ARO Series or SILVERTHIN SC ARO Series

QD ARO Series

0.5” Angular contact ball bearings



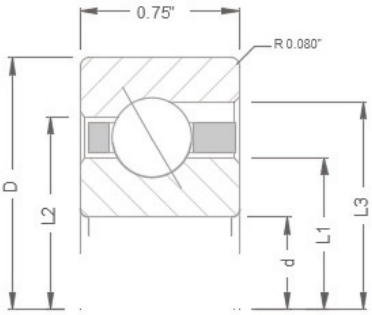
QCB reference	Dimensions					Load ratings				Weight
	d	D	L1	L2	L3	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QD 040 ARO	4.000 101.6	5.000 127	4.370 111.0	4.630 117.6	4.741 120.4	15780	6580	45610	18940	0.363
QD 042 ARO	4.250 107.95	5.250 133.35	4.620 117.3	4.880 124.0	4.991 126.8	16670	6800	48140	19650	0.381
QD 045 ARO	4.500 114.3	5.500 139.7	4.870 123.7	5.130 130.3	5.241 133.1	17560	7020	50670	20310	0.400
QD 047 ARO	4.750 120.65	5.750 146.05	5.120 130.0	5.380 136.7	5.490 139.4	18450	7290	53210	20980	0.422
QD 050 ARO	5.000 127	6.000 152.4	5.370 136.4	5.630 143.0	5.740 145.8	19290	7510	55740	21650	0.445
QD 055 ARO	5.500 139.7	6.500 165.1	5.870 149.1	6.130 155.7	6.238 158.4	21070	7960	60810	22940	0.481
QD 060 ARO	6.000 152.4	7.000 177.8	6.370 161.8	6.630 168.4	6.738 171.1	22800	8400	65880	24180	0.522
QD 065 ARO	6.500 165.1	7.500 190.5	6.870 174.5	7.130 181.1	7.236 183.6	24580	8800	70940	25430	0.562
QD 070 ARO	7.000 177.8	8.000 203.2	7.370 187.2	7.630 193.8	7.736 196.5	26310	9200	76010	26630	0.603
QD 075 ARO	7.500 190.5	8.500 215.9	7.870 199.9	8.130 206.5	8.236 209.2	28090	9650	81080	27780	0.644
QD 080 ARO	8.000 203.2	9.000 228.6	8.370 212.6	8.630 279.2	8.734 221.8	29830	10050	81640	28940	0.689
QD 090 ARO	9.000 228.6	10.000 254.0	9.370 238.00	9.630 244.6	9.732 247.2	33340	10800	96280	31160	0.767
QD 100 ARO	10.000 254	11.000 278.4	10.370 236.4	10.630 270.0	10.732 272.6	36850	11560	106410	33340	0.848
QD 110 ARO	11.000 279.4	12.000 304.8	11.370 288.8	11.630 295.4	11.730 298.0	40360	12270	116550	35380	0.930
QD 120 ARO	12.000 304.8	13.000 330.2	12.370 314.2	12.630 320.8	12.728 323.3	43870	12980	126680	37430	1.010
QD 140 ARO	14.000 355.6	15.000 381.0	14.370 365.0	14.630 371.6	14.724 374.0	50900	14310	146950	41290	1.170
QD 160 ARO	16.000 406.4	17.000 431.8	16.370 415.8	16.630 422.4	16.718 424.6	57920	15600	167220	45030	1.330
QD 180 ARO	18.000 457.2	19.000 482.6	18.370 466.6	18.630 473.2	18.712 475.3	64940	16850	187490	48580	1.490
QD 200 ARO	20.000 508	21.000 533.4	20.370 517.4	20.630 524.0	20.705 525.9	71970	18050	207760	52050	1.660

Normally imported as QD 050 ARO (AISI 52100 steel; Brass pocket style cage, ABEC 1)

Equivalent to KAYDON KD ARO Series or SILVERTHIN SD ARO Series

QF ARO Series

0.75” Angular contact ball bearings



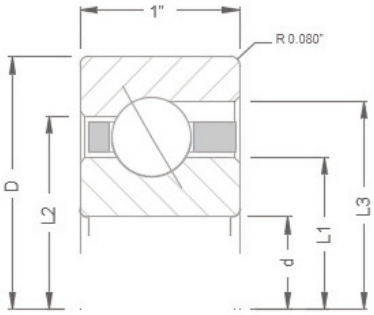
QCB reference	Dimensions					Load ratings				Weight
	d	D	L1	L2	L3	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QF 040 ARO	4.000 101.6	5.500 139.7	4.555 115.7	4.945 125.6	5.115 129.9	28230	12980	81520	37430	0.875
QF 042 ARO	4.250 107.95	5.750 146.05	4.805 122.0	5.195 132.0	5.365 136.3	29340	13290	84680	38360	0.930
QF 045 ARO	4.500 114.3	6.000 152.4	5.055 128.4	5.445 138.3	5.615 142.6	31580	13960	90950	40230	0.975
QF 047 ARO	4.750 120.65	6.250 158.75	5.305 134.7	5.695 14407	5.865 149.0	32580	14270	94060	41160	1.040
QF 050 ARO	5.000 127	6.500 165.1	5.555 141.1	5.945 151.0	6.115 155.3	33650	14580	97210	42050	1.090
QF 055 ARO	5.500 139.7	7.000 177.8	6.055 153.8	6.445 163.7	6.613 168.0	36940	15510	106590	44720	1.180
QF 060 ARO	6.000 152.4	7.500 190.5	6.555 166.5	6.945 176.4	7.113 180.7	40180	16400	116020	47340	1.240
QF 065 ARO	6.500 165.1	8.000 203.2	7.055 179.2	7.445 189.1	7.613 193.4	43430	17290	125440	49870	1.350
QF 070 ARO	7.000 177.8	8.500 215.9	7.555 191.9	7.945 201.8	8.113 206.1	46720	18140	134820	52320	1.450
QF 075 ARO	7.500 190.5	9.000 228.6	8.055 204.6	8.445 214.5	8.610 218.7	48900	18670	141080	53920	1.560
QF 080 ARO	8.000 203.2	9.500 241.3	8.555 217.3	8.945 227.2	9.110 231.4	52140	19510	150510	56320	1.660
QF 090 ARO	9.000 228.6	10.500 266.7	9.555 242.7	9.945 252.6	10.108 256.7	58630	21110	169310	60900	1.810
QF 100 ARO	10.000 254	11.500 292.1	10.555 268.1	10.945 278.0	11.106 282.1	64100	22360	185000	64590	2.020
QF 110 ARO	11.000 279.4	12.500 317.5	11.555 293.5	11.945 303.4	12.106 307.5	70590	23870	203800	68900	2.180
QF 120 ARO	12.000 304.8	13.500 342.9	12.555 318.9	12.945 328.8	13.104 332.8	76010	25070	219490	72410	2.380
QF 140 ARO	14.000 355.6	15.500 393.7	14.555 369.7	14.945 379.6	15.102 383.6	87890	26750	2153990	79790	2.720
QF 160 ARO	16.000 406.4	17.500 444.5	16.555 420.5	16.345 430.4	17.098 434.6	99920	30100	288440	86860	3.220
QF 180 ARO	18.000 457.2	19.500 495.3	18.555 471.3	18.945 481.2	19.096 485.0	112950	32670	326090	94280	3.580
QF 200 ARO	20.000 508	21.500 546.1	20.555 522.1	20.945 532.0	21.092 535.7	124910	34940	360580	100810	4.040

Normally imported as QF 050 ARO (AISI 52100 steel; Brass pocket style cage, ABEC 1)

Equivalent to KAYDON KF ARO Series or SILVERTHIN SF ARO Series

QG ARO Series

1” Angular contact ball bearings



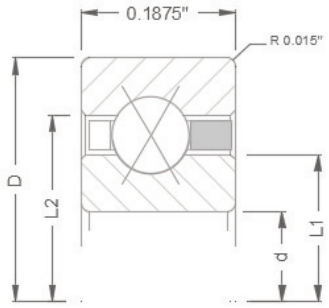
QCB reference	Dimensions					Load ratings				Weight
	d	D	L1	L2	L3	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
OQG 040 ARO	4.000 101.6	6.000 152.4	4.742 120.4	5.258 133.6	5.491 139.5	42140	20980	121620	60590	1.640
QG 042 ARO	4.250 107.95	6.250 158.75	4.992 126.8	5.508 139.9	5.741 145.8	44230	21690	227710	62630	1.740
QG 045 ARO	4.500 114.3	6.500 165.1	5.242 133.1	5.785 146.3	5.989 152.1	46360	22360	133800	64590	1.790
QG 047 ARO	4.750 120.65	6.750 171.45	5.492 139.5	6.008 152.6	6.239 158.9	48450	23030	139840	66540	1.890
QG 050 ARO	5.000 127	7.000 177.8	5.742 145.8	6.258 159.0	6.489 164.8	50540	23690	145930	68450	2.000
QG 055 ARO	5.500 139.7	7.500 190.5	6.242 158.5	6.758 171.7	6.898 177.5	54760	25030	158110	72190	2.150
QG 060 ARO	6.000 152.4	8.000 203.2	6.742 171.2	7.258 184.4	7.489 190.2	58990	26270	170240	75830	2.300
QG 065 ARO	6.500 165.1	8.500 215.9	7.242 183.9	7.758 197.1	7.987 202.9	63210	27520	182420	79430	2.450
QG 070 ARO	7.000 177.8	9.000 228.6	7.742 196.6	8.258 209.8	8.487 215.6	67390	28720	194600	82900	2.660
QG 075 ARO	7.500 190.5	9.500 241.3	8.242 209.3	8.758 222.5	8.987 228.3	71610	29920	206740	86320	2.810
QG 080 ARO	8.000 203.2	10.000 254.0	8.742 222.0	9.258 235.2	9.485 240.9	75830	31070	218920	89700	2.970
QG 090 ARO	9.000 228.6	11.000 279.4	9.742 247.4	10.258 260.6	10.485 266.3	84280	33340	243230	96190	3.270
QG 100 ARO	10.000 254	12.000 304.8	10.742 272.8	11.258 286.0	11.483 291.7	92680	35520	267550	102500	3.630
QG 110 ARO	11.000 279.4	13.000 330.2	111.742 298.2	12.258 311.4	12.481 317.0	101120	37650	291680	108640	3.940
QG 120 ARO	12.000 304.8	14.000 355.6	12.742 323.6	13.258 336.8	13.481 312.4	109530	39690	316220	114590	4.300
QG 140 ARO	14.000 355.6	16.300 406.4	14.742 374.4	15.258 387.6	15.478 393.1	126370	43650	364850	126060	4.940
QG 160 ARO	16.000 406.4	18.000 457.2	16.742 425.2	17.258 438.4	17.474 443.8	143320	4740	413470	137040	5.620
QG 180 ARO	18.000 457.2	20.000 508.0	18.742 476.0	19.258 489.2	19.472 494.6	160110	51120	462280	147570	6.260
QG 200 ARO	20.000 508	22.000 558.8	20.742 526.8	21.258 540.0	21.468 545.3	176960	54670	510730	157750	6.890

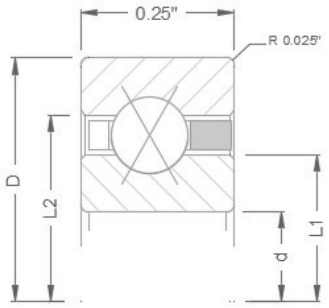
Normally imported as QG 050 ARO (AISI 52100 steel; Brass pocket style cage, ABEC 1)

Equivalent to KAYDON KG ARO Series or SILVERTHIN SG ARO Series

QAA / QA XPO series

0.1875” & 0.250” 4-Point contact ball bearings





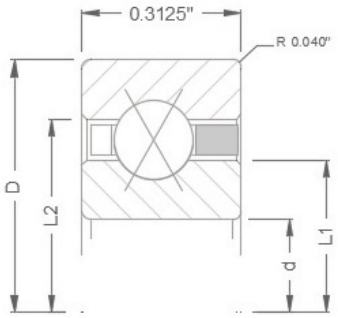
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QAA 010 XPO	1.000 25.4	1.375 34.925	1.142 29.0	1.236 31.4	1290	670	3250	1650	0.012
QAA 015 XPO	1.500 38.1	1.875 47.625	1.642 41.7	1.736 44.1	1780	800	4450	2050	0.018
QA 020 XPO	2.000 50.8	2.500 63.5	2.186 55.5	2.134 58.8	1650	1420	7600	3510	0.048
QA 025 XPO	2.500 63.5	3.000 76.2	2.686 68.2	2.814 71.5	3690	1600	9290	4050	0.059
QA 030 XPO	3.000 76.2	3.500 88.9	3.186 80.9	3.314 84.2	4400	1820	10980	4490	0.068
QA 035 XPO	3.500 88.9	4.000 101.6	3.686 93.6	3.814 96.9	5070	2000	12670	4930	0.082
QA 040 XPO	4.000 101.6	4.500 114.3	4.186 106.3	4.314 109.6	5730	2130	14310	5380	0.090
QA 042 XPO	4.250 107.95	4.150 120.65	4.436 112.7	4.564 115.9	6090	2220	15160	5600	0.095
QA 045 XPO	4.500 114.3	5.000 127.0	4.686 119.0	4.814 122.3	6400	2310	16000	5820	0.100
QA 047 XPO	4.750 120.65	5.250 133.35	4.936 125.4	5.064 128.6	6760	2400	16850	6000	0.104
QA 050 XPO	5.000 127.0	5.500 139.7	5.186 131.7	5.314 135.0	7070	2490	17690	6220	0.109
QA 055 XPO	5.500 139.7	6.000 152.4	5.686 144.4	5.814 147.7	7780	2620	19380	6580	0.118
QA 060 XPO	6.000 152.4	6.500 165.1	6.186 157.1	6.314 160.4	8450	2800	20170	6980	0.130
QA 065 XPO	6.500 165.1	7.000 177.8	6.686 169.8	6.814 173.1	9110	2930	22760	7330	0.140
QA 070 XPO	7.000 177.8	7.500 190.5	7.186 182.5	7.314 185.8	9780	3070	24450	7690	0.150
QA 078 XPO	7.500 190.5	8.000 203.2	7.686 195.2	7.814 198.5	10450	3200	26140	8050	0.160
QA 080 XPO	8.000 203.2	8.500 215.9	8.186 207.9	8.314 211.2	11110	3330	27830	8400	0.172
QA 090 XPO	9.000 228.6	9.500 241.3	9.186 2333.3	9.314 236.6	12490	3600	31200	9070	0.200
QA 100 XPO	10.000 254.0	10.500 266.7	10.186 258.7	10.314 262.0	13820	3870	34580	9690	0.227
QA 110 XPO	11.000 279.4	11.500 292.1	11.186 284.1	11.314 287.4	15160	4130	37960	10310	0.236
QA 120 XPO	12.000 304.8	12.500 317.5	12.186 309.5	12.314 312.8	16540	4360	41340	10890	0.254

Normally imported as QA 050 XPO (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.0000” - 0.0005” Clearance)

Equivalent to KAYDON KA / KAA XPO Series or SILVERTHIN SA / SAA XPO Series

QB XPO Series

0.3125” 4-Point contact ball bearings



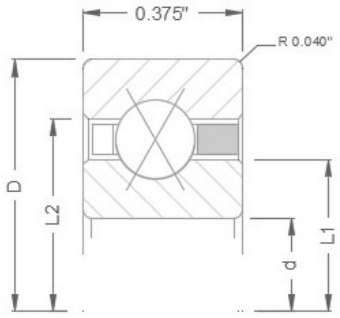
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QB 020 XPO	2.000 50.8	2.625 66.675	2.231 56.7	2.393 60.8	4130	2000	10400	5020	0.073
QB 025 XPO	2.500 63.5	3.125 79.375	2.731 69.4	2.893 73.5	5070	2310	112620	5730	0.091
QB 030 XPO	3.000 76.2	3.625 92.075	3.231 82.1	3.393 86.2	5960	2580	14890	6400	0.109
QB 035 XPO	3.500 88.9	4.125 104.775	3.731 94.8	3.893 98.9	6850	2800	17160	7070	0.125
QB 040 XPO	4.000 101.6	4.625 117.475	4.231 107.5	4.393 111.6	7780	3070	19430	7650	0.140
QB 042 XPO	4.250 107.95	4.875 123.825	4.481 113.8	4.643 117.9	8130	3160	20310	7910	0.147
QB 045 XPO	4.500 114.3	5.125 130.175	4.731 120.2	4.893 124.3	8670	3290	21690	8220	0.160
QB 047 XPO	4.750 120.65	5.375 136.525	4.981 126.6	5.143 130.6	9020	3380	22580	8450	0.163
QB 050 XPO	5.000 127.0	5.625 142.875	5.231 132..9	5.393 137.0	9560	3510	23910	8800	0.172
QB 055 XPO	5.500 139.7	6.125 155.575	5.731 145.6	5.893 149.7	10490	3730	26180	9340	0.186
QB 060 XPO	6.000 152.4	6.625 168.275	6.231 158.3	6.393 162.4	11380	3960	28450	9870	0.205
QB 065 XPO	6.500 165.1	7.125 180.975	6.731 171.0	689.3 175.1	12270	4130	30720	10400	0.216
QB 070 XPO	7.000 177.8	7.625 193.675	7.231 183.7	7.393 187.8	13200	4360	32980	10890	0.232
QB 075 XPO	7.500 190.5	8.125 206.375	7.731 196.4	7.893 200.5	14090	4530	35200	11380	0.250
QB 080 XPO	8.000 203.2	8.625 219.075	8.231 209.1	8.393 213.2	14980	4760	37470	11870	0.262
QB 090 XPO	9.000 228.6	9.625 244.475	9.231 234.5	9.393 238.6	16800	5110	42000	12800	0.300
QB 100 XPO	10.000 254.0	10.625 269.875	10.231 259.9	10.393 264.0	18630	5470	46500	13690	0.331
QB 110 XPO	11.000 279.4	11.625 295.275	11.231 285.3	11.393 289.4	20400	5820	51030	14580	0.360
QB 120 XPO	12.000 304.8	12.625 320.675	12.231 310.7	12.393 314.8	22230	6180	55560	15420	0.390
QB 140 XPO	14.000 355.6	14.625 371.475	14.231 361.5	14.393 365.6	25830	6800	64590	17070	0.476
QB 160 XPO	16.000 406.4	16.625 422.275	16.231 412.3	16.393 416.4	29430	7420	73610	18630	0.544
QB 180 XPO	18.000 457.2	18.625 437.075	18.231 463.1	18.393 467.2	33070	8050	82630	20090	0.612
QB 200 XPO	20.000 508.0	20.625 523.875	20.231 513.9	20.393 518.0	36670	8620	91660	21560	0.680

Normally imported as QB 050 XPO (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.0000” - 0.0005” Clearance)

Equivalent to KAYDON KB XPO Series or SILVERTHIN SB XPO Series

QC XPO Series

0.3175” 4-Point contact ball bearings



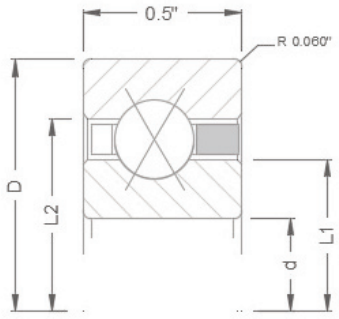
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QC 040 XPO	4.000 101.6	4.750 120.65	4.277 108.6	4.473 113.6	9340	3910	23380	9820	0.204
QC 042 XPO	4.250 107.95	5.000 127.0	4.527 115.0	4.723 120.0	9870	4090	24710	10180	0.231
QC 045 XPO	4.500 114.3	5.250 133.35	4.777 121.3	4.937 126.3	10400	4220	26050	10580	0.225
QC 047 XPO	4.750 120.65	5.000 139.7	5.027 127.7	5.223 132.7	10940	4360	27380	10940	0.235
QC 050 XPO	5.000 127	5.750 146.05	5.277 134.0	547.3 139.0	11510	4490	28720	11290	0.263
QC 055 XPO	5.500 139.7	6.250 158.75	5.777 146.7	5.973 151.7	12580	4800	31380	11960	0.268
QC 060 XPO	6.000 152.4	6.750 171.45	6.277 159.4	6.473 164.4	13650	5070	34050	12620	0.295
QC 065 XPO	6.500 165.1	7.250 184.15	6.777 172.1	6.937 177.1	14710	5330	36760	13290	0.312
QC 070 XPO	7.000 177.8	7.750 196.85	7.277 184.8	7.473 189.8	15780	5560	39430	13910	0.340
QC 075 XPO	7.500 190.5	8.250 209.55	7.777 197.5	7.973 202.5	16850	5820	42090	14540	0.360
QC 080 XPO	8.000 203.2	8.750 222.25	8.277 210.2	8.473 215.2	17910	6050	44760	15160	0.387
QC 090 XPO	9.000 228.6	9.750 247.65	9.277 235.6	9.473 240.6	20050	6530	50100	16310	0.450
QC 100 XPO	10.000 254	10.750 273.05	10.277 261.0	10.473 266.0	22180	6980	55430	17470	0.481
QC 110 XPO	11.000 279.4	11.750 298.45	11.277 286.4	11.473 291.4	24310	7420	60810	18580	0.526
QC 120 XPO	12.000 304.8	12.750 323.85	112.277 311.8	12.473 316.8	26450	7870	66140	19650	0.567
QC 140 XPO	14.000 355.6	14.750 374.65	14.277 362.6	14.473 367.6	30720	8670	76810	21740	0.689
QC 160 XPO	16.000 406.4	16.750 425.45	16.277 413.4	14.473 418.4	35030	9470	87520	23690	0.785
QC 180 XPO	18.000 457.2	18.750 476.25	18.277 464.2	18.473 469.2	39290	10220	98190	25600	0.880
QC 200 XPO	20.000 508.0	70.750 527.05	20.277 515.0	20.473 520.0	43560	10980	108900	27430	0.980

Normally imported as QC 050 XPO (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.0000” - 0.0005” Clearance)

Equivalent to KAYDON KC XPO Series or SILVERTHIN SC XPO Series

QD XPO Series

0.5” 4-Point contact ball bearings



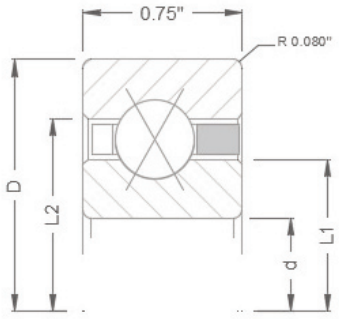
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QD 040 XPO	4.000 101.6	5.000 127	4.370 111.0	4.630 117.6	13690	6270	34230	15650	0.366
QD 042 XPO	4.250 107.95	5.250 133.35	4.620 117.3	4.880 124.0	14180	6400	35470	16000	0.386
QD 045 XPO	4.500 114.3	5.500 139.7	4.870 123.7	5.130 130.3	15200	6710	38010	16760	0.405
QD 047 XPO	4.750 120.65	5.750 146.05	5.120 130.0	5.380 136.7	15960	6850	39290	17160	0.426
QD 050 XPO	5.000 127	6.000 152.4	5.370 136.4	5.630 143.0	16710	7160	41830	17870	0.454
QD 055 XPO	5.500 139.7	6.500 165.1	5.870 149.1	6.130 155.7	18230	7560	45610	18940	0.485
QD 060 XPO	6.000 152.4	7.000 177.8	6.370 161.8	6.630 168.4	19780	8000	49430	19960	0.526
QD 065 XPO	6.500 165.1	7.500 190.5	6.870 174.5	7.130 181.1	21290	8400	53210	20980	0.566
QD 070 XPO	7.000 177.8	8.000 203.2	7.370 187.2	7.630 193.8	22800	8800	57030	21960	0.606
QD 075 XPO	7.500 190.5	8.500 215.9	7.870 199.9	8.130 206.5	24310	9160	60810	22940	0.650
QD 080 XPO	8.000 203.2	9.000 228.6	8.370 212.6	8.630 279.2	25830	9560	64360	23870	0.694
QD 090 XPO	9.000 228.6	10.000 254.0	9.370 238.00	9.630 244.6	28900	10310	72230	25740	0.780
QD 100 XPO	10.000 254	11.000 278.4	10.370 236.4	10.630 270.0	31920	10980	79830	27520	0.853
QD 110 XPO	11.000 279.4	12.000 304.8	11.370 288.8	11.630 295.4	34980	11690	87430	29200	0.934
QD 120 XPO	12.000 304.8	13.000 330.2	12.370 314.2	12.630 320.8	38010	12360	95030	30890	1.020
QD 140 XPO	14.000 355.6	15.000 381.0	14.370 365.0	14.630 371.6	44090	13650	110240	34090	1.240
QD 160 XPO	16.000 406.4	17.000 431.8	16.370 415.8	16.630 422.4	50180	14890	125440	37160	1.410
QD 180 XPO	18.000 457.2	19.000 482.6	18.370 466.6	18.630 473.2	56230	16050	140640	40140	1.580
QD 200 XPO	20.000 508	21.000 533.4	20.370 517.4	20.630 524.0	62320	17200	155840	42980	1.750

Normally imported as QD 050 XPO (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.0000” - 0.0005” Clearance)

Equivalent to KAYDON KD XPO Series or SILVERTHIN SD XPO Series

QF XPO Series

0.75” 4-Point contact ball bearings



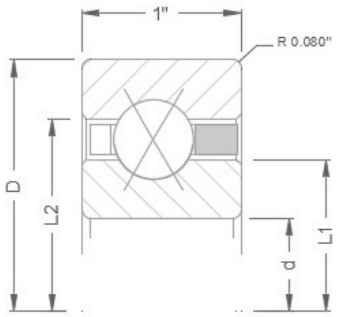
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QF 040 XPO	4.000 101.6	5.500 139.7	4.555 115.7	4.945 125.6	23830	12140	59560	30360	0.875
QF 042 XPO	4.250 107.95	5.750 146.05	4.805 122.0	5.195 132.0	25070	12580	62720	31430	0.930
QF 045 XPO	4.500 114.3	6.000 152.4	5.055 128.4	5.445 138.3	26360	12980	65830	32450	0.975
QF 047 XPO	4.750 120.65	6.250 158.75	5.305 134.7	5.695 14407	27600	13380	68990	33470	1.040
QF 050 XPO	5.000 127	6.500 165.1	5.555 141.1	5.945 151.0	28850	13780	72100	34490	1.090
QF 055 XPO	5.500 139.7	7.000 177.8	6.055 153.8	6.445 163.7	31340	14580	78370	36450	1.180
QF 060 XPO	6.000 152.4	7.500 190.5	6.555 166.5	6.945 176.4	33870	15340	84680	38360	1.240
QF 065 XPO	6.500 165.1	8.000 203.2	7.055 179.2	7.445 189.1	36360	16090	90950	40230	1.350
QF 070 XPO	7.000 177.8	8.500 215.9	7.555 191.9	7.945 201.8	38890	16850	97210	42050	1.450
QF 075 XPO	7.500 190.5	9.000 228.6	8.055 204.6	8.445 214.5	41380	17560	103480	43870	1.560
QF 080 XPO	8.000 203.2	9.500 241.3	8.555 217.3	8.945 227.2	43920	18230	109750	45610	1.660
QF 090 XPO	9.000 228.6	10.500 266.7	9.555 242.7	9.945 252.6	48900	19600	122280	49030	1.810
QF 100 XPO	10.000 254	11.500 292.1	10.555 268.1	10.945 278.0	53920	20940	134820	52320	2.020
QF 110 XPO	11.000 279.4	12.500 317.5	11.555 293.5	11.945 303.4	58940	22230	147350	55520	2.180
QF 120 XPO	12.000 304.8	13.500 342.9	12.555 318.9	12.945 328.8	64960	23470	159890	58630	2.380
QF 140 XPO	14.000 355.6	15.500 393.7	14.555 369.7	14.945 379.6	74010	25830	185000	64590	2.720
QF 160 XPO	16.000 406.4	17.500 444.5	16.555 420.5	16.345 430.4	84010	28140	210070	70320	3.220
QF 180 XPO	18.000 457.2	19.500 495.3	18.555 471.3	18.945 481.2	94060	30320	235140	75830	3.580
QF 200 XPO	20.000 508	21.500 546.1	20.555 522.1	20.945 532.0	104100	32450	260260	81120	4.040

Normally imported as QF 050 XPO (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.0000” - 0.0005” Clearance)

Equivalent to KAYDON KF XPO Series or SILVERTHIN SF XPO Series

QG XPO Series

1” 4-Point contact ball bearings



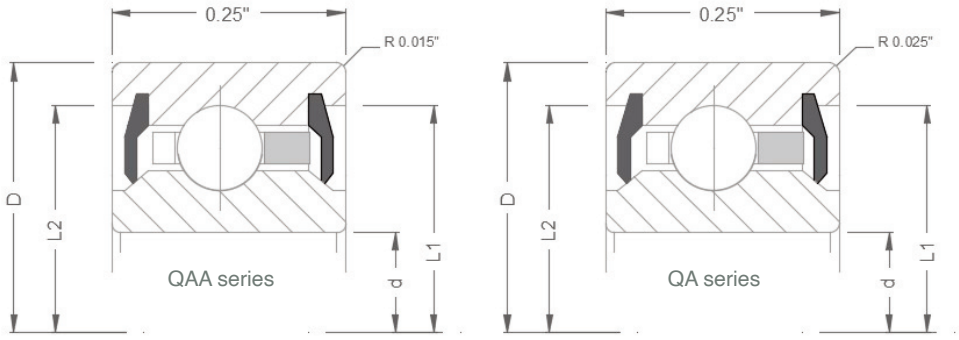
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QG 040 XPO	4.000 101.6	6.000 152.4	4.742 120.4	5.258 133.6	34690	20000	91210	50050	1.650
QG 042 XPO	4.250 107.95	6.250 158.75	4.992 126.8	5.508 139.9	34690	20000	91210	50050	1.750
QG 045 XPO	4.500 114.3	6.500 165.1	5.242 133.1	5.785 146.3	38940	20890	97300	52230	1.810
QG 047 XPO	4.750 120.65	6.750 171.45	5.492 139.5	6.008 152.6	41340	21740	103390	54360	1.910
QG 050 XPO	5.000 127	7.000 177.8	5.742 145.8	6.258 159.0	43780	22580	109440	56500	2.020
QG 055 XPO	5.500 139.7	7.500 190.5	6.242 158.5	6.758 171.7	46230	23430	115530	58590	2.170
QG 060 XPO	6.000 152.4	8.000 203.2	6.742 171.2	7.258 184.4	51070	25030	127710	62630	2.310
QG 065 XPO	6.500 165.1	8.500 215.9	7.242 183.9	7.758 197.1	53520	25830	133800	64590	2.470
QG 070 XPO	7.000 177.8	9.000 228.6	7.742 196.6	8.258 209.8	58360	27380	145930	68450	2.670
QG 075 XPO	7.500 190.5	9.500 241.3	8.242 209.3	8.758 222.5	60810	28140	152020	70320	2.830
QG 080 XPO	8.000 203.2	10.000 254.0	8.742 222.0	9.258 235.2	65650	29600	164200	74010	3.000
QG 090 XPO	9.000 228.6	11.000 279.4	9.742 247.4	10.258 260.6	72990	31780	182420	79430	3.300
QG 100 XPO	10.000 254	12.000 304.8	10.742 272.8	11.258 286.0	80230	33870	200650	84630	3.650
QG 110 XPO	11.000 279.4	13.000 330.2	111.742 298.2	12.258 311.4	87570	35870	218920	89700	3.960
QG 120 XPO	12.000 304.8	14.000 355.6	12.742 323.6	13.258 336.8	94860	37830	237140	94590	4.320
QG 140 XPO	14.000 355.6	16.300 406.4	14.742 374.4	15.258 387.6	109440	41610	273630	104060	4.960
QG 160 XPO	16.000 406.4	18.000 457.2	16.742 425.2	17.258 438.4	124060	45250	310130	113130	5.650
QG 180 XPO	18.000 457.2	20.000 508.0	18.742 476.0	19.258 489.2	138640	48720	346620	121840	6.280
QG 200 XPO	20.000 508	22.000 558.8	20.742 526.8	21.258 540.0	153220	52100	383070	130240	7.530

Normally imported as QG 050 XPO (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.0000” - 0.0005” Clearance)

Equivalent to KAYDON KG XPO Series or SILVERTHIN SG XPO Series

QAA / QA CPO Sealed Series

0.250” x 0.1875” & 0.250” x 0.250” Sealed radial ball bearings



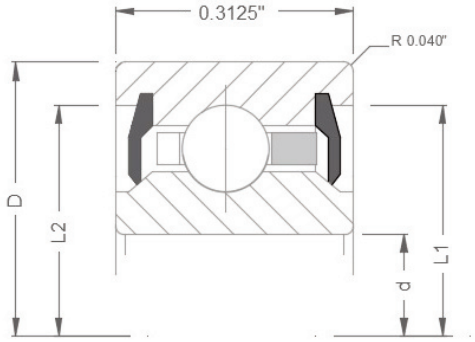
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QAA 010 CP0 2R	1.000 25.4	1.375 34.925	1.108 28.1	1.274 32.4	1290	670	0.016
QAA 015 CP0 2R	1.500 38.1	1.875 47.625	1.608 40.8	1.774 45.1	1780	800	0.024
QA 020 CP0 2R	2.000 50.8	2.500 63.5	2.148 54.6	2.356 59.8	3020	1420	0.045
QA 025 CP0 2R	2.500 63.5	3.000 76.2	2.648 62.7	2.856 72.5	3690	1600	0.054
QA 030 CP0 2R	3.000 76.2	3.500 88.9	3.148 80.0	3.356 85.2	4400	1820	0.064
QA 035 CP0 2R	3.500 88.9	4.000 101.6	3.648 92.7	3.856 98.0	5070	2000	0.077
QA 040 CP0 2R	4.000 101.6	4.500 114.3	4.418 105.4	4.356 110.6	5730	2130	0.086
QA 042 CP0 2R	4.250 107.95	4.150 120.65	4.398 111.7	4.606 117.0	6090	2220	0.091
QA 045 CP0 2R	4.500 114.3	5.000 127.0	4.648 118.0	4.856 123.3	6400	2310	0.095
QA 047 CP0 2R	4.750 120.65	5.250 133.35	4.898 124.4	5.106 129.7	6760	2400	0.100
QA 050 CP0 2R	5.000 127.0	5.500 139.7	5.148 130.8	5.356 136.0	7070	2490	0.104
QA 055 CP0 2R	5.500 139.7	6.000 152.4	5.648 143.5	5.856 148.7	7780	2620	0.113
QA 060 CP0 2R	6.000 152.4	6.500 165.1	6.148 156.2	6.356 161.4	8450	2800	0.127
QA 065 CP0 2R	6.500 165.1	7.000 177.8	6.648 168.9	6.856 174.1	9110	2930	0.136

Normally imported as QA 050 CP0 2R A (AISI 52100 steel; Brass snapover cage, ABEC 1, 2 seals, 0.000-0.005” internal clearance)

Equivalent to KAYDON JHA / JA CP0 Series or SILVERTHIN JSA CP0 Series

QB CPO Sealed Series

0.3125” x 0.3125” Sealed radial ball bearings



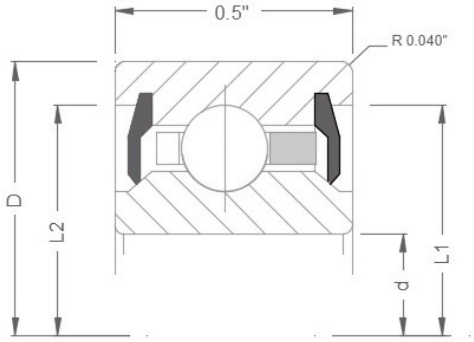
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QB 020 CPO 2R	2.000 50.8	2.625 66.675	2.136 54.3	2.362 60.0	4130	2000	0.068
QB 025 CPO 2R	2.500 63.5	3.125 79.375	2.636 67.0	2.862 72.7	5070	2310	0.086
QB 030 CPO 2R	3.000 76.2	3.625 92.075	3.136 79.7	3.362 85.4	5960	2580	0.100
QB 035 CPO 2R	3.500 88.9	4.125 104.775	3.636 92.4	3.862 98.1	6850	2800	0.122
QB 040 CPO 2R	4.000 101.6	4.625 117.475	4.136 105.0	4.362 110.8	7780	3070	0.136
QB 042 CPO 2R	4.250 107.95	4.875 123.825	4.386 111.4	4.662 118.4	8130	3160	0.141
QB 045 CPO 2R	4.500 114.3	5.125 130.175	4.636 117.8	4.862 123.5	8670	3290	0.154
QB 047 CPO 2R	4.750 120.65	5.375 136.525	4.886 124.1	5.162 131.1	9020	3380	0.159
QB 050 CPO 2R	5.000 127	5.625 142.875	5.136 130.5	5.362 136.2	9650	3510	0.168
QB 055 CPO 2R	5.500 139.7	6.125 155.575	5.636 143.2	5.862 148.9	10490	3730	0.181
QB 060 CPO 2R	6.000 152.4	6.625 168.275	6.136 155.9	6.362 161.6	11380	3960	0.200
QB 065 CPO 2R	6.500 165.1	7.125 180.975	6.638 168.6	6.862 174.3	12270	4130	0.213

Normally imported as QB 050 CPO 2R A (AISI 52100 steel; Brass snapover cage, ABEC 1, 2 seals, 0.000-0.005” internal clearance)

Equivalent to KAYDON JB CPO Series or SILVERTHIN JSB CPO Series

QU CPO Sealed Series

0.5” x 0.375” Sealed radial ball bearings



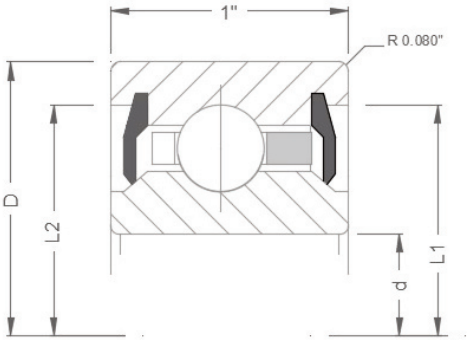
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QU 040 CPO 2R	4.000 101.6	4.750 120.65	4.150 105.4	4.547 115.5	9330	3910	0.249
QU 042 CPO 2R	4.250 107.95	5.000 127.0	4.400 111.76	4.797 121.8	9780	4090	0.263
QU 045 CPO 2R	4.500 114.3	5.250 133.35	4.650 118.1	5.047 128.2	10400	4220	0.277
QU 047 CPO 2R	4.750 120.65	5.000 139.7	4.900 124.5	5.295 134.5	10930	4360	0.295
QU 050 CPO 2R	5.000 127	5.750 146.05	5.150 130.8	5.545 140.8	11510	4490	0.308
QU 055 CPO 2R	5.500 139.7	6.250 158.75	5.560 143.5	6.042 153.5	12580	4800	0.336
QU 060 CPO 2R	6.000 152.4	6.750 171.45	6.150 156.2	6.542 166.2	13650	5070	0.367
QU 065 CPO 2R	6.500 165.1	7.250 184.15	6.650 168.9	7.037 178.7	14710	5330	0.395
QU 070 CPO 2R	7.000 177.8	7.750 196.85	7.150 181.6	7.537 191.4	15780	5560	0.422
QU 075 CPO 2R	7.500 190.5	8.250 209.55	7.650 194.3	8.037 204.1	16850	5820	0.449
QU 080 CPO 2R	8.000 203.2	8.750 222.25	8.150 207.0	8.534 216.8	17910	6050	0.481
QU 090 CPO 2R	9.000 228.6	9.750 247.65	9.150 232.4	9.535 242.2	20050	6530	0.535
QU 100 CPO 2R	10.000 254	10.750 273.05	10.150 257.8	10.535 267.6	22180	6980	0.594
QU 110 CPO 2R	11.000 279.4	11.750 298.45	11.150 283.2	11.535 293.0	24310	7420	0.649
QU 120 CPO 2R	12.000 304.8	12.750 323.85	12.150 308.6	12.535 318.4	26450	7870	0.708

Normally imported as QU 050 CPO 2R A (AISI 52100 steel; Brass snapover cage, ABEC 1, 2 seals, 0.000-0.005” internal clearance)

Equivalent to KAYDON JU CPO Series or SILVERTHIN JSU CPO Series

QG CPO Sealed Series

1” x 1” Sealed radial ball bearings



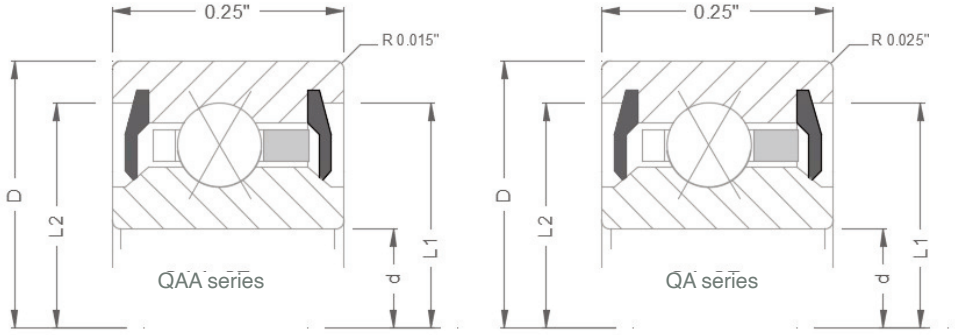
QCB reference	Dimensions				Load ratings		Weight
	d	D	L1	L2	Cor	Cr	
	in / mm	in / mm	in / mm	in / mm	N	N	kg
QG 120 CPO 2R	12.000 304.8	14.000 355.6	12.554 318.9	13.602 345.2	94860	37830	4.218
QG 140 CPO 2R	14.000 355.6	16.300 406.4	14.554 369.7	15.602 396.3	109440	41600	4.899
QG 160 CPO 2R	16.000 406.4	18.000 457.2	16.554 420.5	17.602 447.1	124060	45250	5.579
QG 180 CPO 2R	18.000 457.2	20.000 508.0	18.554 471.3	19.602 497.9	138640	48720	6.214
QG 200 CPO 2R	20.000 508	22.000 558.8	20.554 522.1	20.602 548.7	153220	52100	7.167

Normally imported as QG 120 CPO 2R A (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.000-0.005” internal clearance)

Equivalent to KAYDON JG CPO Series

QAA / QA XPO Sealed Series

0.25” x 0.1875” & 0.250” x 0.250” Sealed 4-point contact bearings



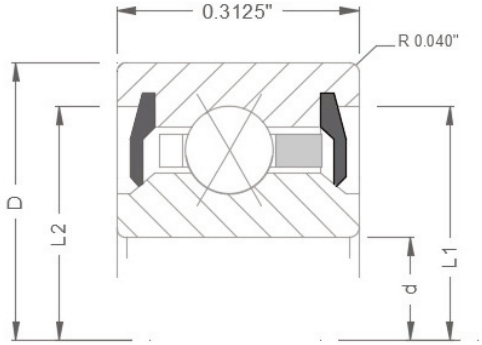
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QAA 010 XPO 2R	1.000 25.4	1.375 34.925	1.180 28.1	1.274 32.4	1290	670	3250	1650	0.016
QAA 015 XPO 2R	1.500 38.1	1.875 47.625	1.608 40.8	1.774 45.1	1780	800	4450	2050	0.024
QA 020 XPO 2R	2.000 50.8	2.500 63.5	2.148 54.6	2.356 59.8	1650	1420	7600	3510	0.045
QA 025 XPO 2R	2.500 63.5	3.000 76.2	2.648 62.7	2.856 72.5	3690	1600	9290	4050	0.054
QA 030 XPO 2R	3.000 76.2	3.500 88.9	3.148 80.0	3.356 85.2	4400	1820	10980	4490	0.064
QA 035 XPO 2R	3.500 88.9	4.000 101.6	3.648 92.7	3.856 98.0	5070	2000	12670	4930	0.077
QA 040 XPO 2R	4.000 101.6	4.500 114.3	4.148 105.4	4.356 110.6	5730	2130	14310	5380	0.086
QA 042 XPO 2R	4.250 107.95	4.150 120.65	4.398 111.7	4.606 117.0	6090	2220	15160	5600	0.091
QA 045 XPO 2R	4.500 114.3	5.000 127.0	4.648 118.0	4.856 123.3	6400	2310	16000	5820	0.095
QA 047 XPO 2R	4.750 120.65	5.250 133.35	4.898 124.4	5.106 129.7	6760	2400	16850	6000	0.100
QA 050 XPO 2R	5.000 127.0	5.500 139.7	5.148 130.8	5.356 136.0	7070	2490	17690	6220	0.104
QA 055 XPO 2R	5.500 139.7	6.000 152.4	5.648 143.5	5.856 148.7	7780	2620	19380	6580	0.113
QA 060 XPO 2R	6.000 152.4	6.500 165.1	6.148 156.2	6.356 161.4	8450	2800	20170	6980	0.127
QA 065 XPO 2R	6.500 165.1	7.000 177.8	6.648 168.9	6.856 174.1	9110	2930	22760	7330	0.136

Normally imported as QA 050 XPO 2R A (AISI 52100 steel; Brass snapover cage, ABEC 1, 2 seals, 0.000-0.005” internal clearance)

Equivalent to KAYDON JHA / JA XPO Series or SILVERTHIN JSA XPO Series

QB CPO Sealed Series

0.3125” x 0.3125” Sealed 4-point contact bearings



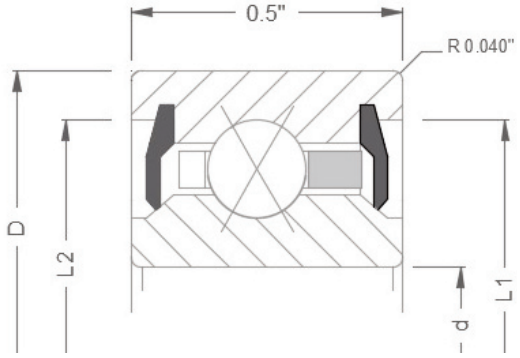
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QB 020 XPO 2R	2.000 50.8	2.625 66.675	2.136 54.3	2.362 60.0	4130	2000	10400	5020	0.068
QB 025 XPO 2R	2.500 63.5	3.125 79.375	2.636 67.0	2.862 72.7	5070	2310	112620	5730	0.086
QB 030 XPO 2R	3.000 76.2	3.625 92.075	3.136 79.7	3.362 85.4	5960	2580	14890	6400	0.100
QB 035 XPO 2R	3.500 88.9	4.125 104.775	3.636 92.4	3.682 98.1	6850	2800	17160	7070	0.122
QB 040 XPO 2R	4.000 101.6	4.625 117.475	4.136 105.0	4.362 110.8	7780	3070	19430	7650	0.136
QB 042 XPO 2R	4.250 107.95	4.875 123.825	4.386 111.4	4.662 118.4	8130	3160	20310	7910	0.141
QB 045 XPO 2R	4.500 114.3	5.125 130.175	4.636 117.8	4.862 123.5	8670	3290	21690	8220	0.154
QB 047 XPO 2R	4.750 120.65	5.375 136.525	4.886 124.1	5.162 131.1	9020	3380	22580	8450	0.159
QB 050 XPO 2R	5.000 127.0	5.625 142.875	5.136 130.5	5.362 136.2	9560	3510	23910	8800	0.168
QB 055 XPO 2R	5.500 139.7	6.125 155.575	5.636 143.2	5.862 148.9	10490	3730	26180	9340	0.181
QB 060 XPO 2R	6.000 152.4	6.625 168.275	6.136 155.9	6.362 161.6	11380	3960	28450	9870	0.200
QB 065 XPO 2R	6.500 165.1	7.125 180.975	6.638 168.6	6.862 174.3	12270	4130	30720	10400	0.213

Normally imported as QB 050 XPO 2R A (AISI 52100 steel; Brass snapover cage, ABEC 1, 2 seals, 0.000-0.005” internal clearance)

Equivalent to KAYDON JB XPO Series or SILVERTHIN JSB XPO Series

QU XPO Sealed Series

0.5” x 0.375” 4-point contact bearings



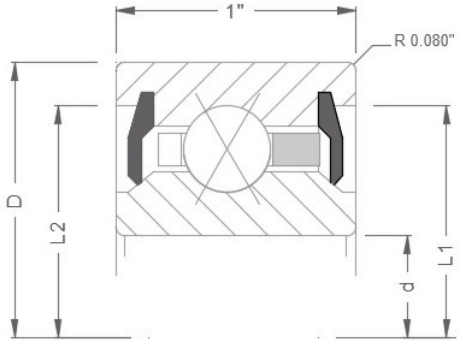
QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QU 040 XPO 2R	4.000 101.6	4.750 120.65	4.150 105.4	4.547 115.5	9340	3910	23380	9820	0.249
QU 042 XPO 2R	4.250 107.95	5.000 127.0	4.400 111.76	4.797 121.8	9870	4090	24710	10180	0.263
QU 045 XPO 2R	4.500 114.3	5.250 133.35	4.650 118.1	5.047 128.2	10400	4220	26050	10580	0.277
QU 047 XPO 2R	4.750 120.65	5.000 139.7	4.900 124.5	5.295 134.5	10940	4360	27380	10940	0.295
QU 050 XPO 2R	5.000 127	5.750 146.05	5.150 130.8	5.5445 140.8	11510	4490	28720	11290	0.308
QU 055 XPO 2R	5.500 139.7	6.250 158.75	5.560 143.5	6.042 153.5	12580	4800	31380	11960	0.336
QU 060 XPO 2R	6.000 152.4	6.750 171.45	6.150 156.2	6.542 166.2	13650	5070	34050	12620	0.367
QU 065 XPO 2R	6.500 165.1	7.250 184.15	6.650 168.9	7.037 178.7	14710	5330	36760	13290	0.395
QU 070 XPO 2R	7.000 177.8	7.750 196.85	7.150 181.6	7.537 191.4	15780	5560	39430	13910	0.422
QU 075 XPO 2R	7.500 190.5	8.250 209.55	7.650 194.3	8.037 204.1	16850	5820	42090	14540	0.449
QU 080 XPO 2R	8.000 203.2	8.750 222.25	8.150 207.0	8.537 216.8	17910	6050	44760	15160	0.481
QU 090 XPO 2R	9.000 228.6	9.750 247.65	9.150 232.4	9.535 242.2	20050	6530	50100	16310	0.535
QU 100 XPO 2R	10.000 254	10.750 273.05	10.150 257.8	10.535 267.6	22180	6980	55430	17470	0.594
QU 110 XPO 2R	11.000 279.4	11.750 298.45	11.150 283.2	11.535 293.0	24310	7420	60810	18580	0.649
QU 120 XPO 2R	12.000 304.8	12.750 323.85	12.150 308.6	12.535 318.4	26450	7870	66140	19650	0.708

Normally imported as QU 050 CPO 2R A (AISI 52100 steel; Brass snapover cage, ABEC 1, 2 seals, 0.000-0.005” internal clearance)

Equivalent to KAYDON JU XPO Series or SILVERTHIN JSU XPO Series

QG XPO Sealed Series

1”x 1” Sealed 4-point contact bearings



QCB reference	Dimensions				Load ratings				Weight
	d	D	L1	L2	Radial Cor	Radial Cr	Axial Coa	Axial Ca	
	in / mm	in / mm	in / mm	in / mm	N	N	N	N	kg
QG 120 XPO 2R	12.000 304.8	14.000 355.6	12.554 318.9	13.602 345.5	94860	37830	237140	94590	4.218
QG 140 XPO 2R	14.000 355.6	16.300 406.4	14.554 369.7	15.602 396.3	109440	41610	273630	104060	4.899
QG 160 XPO 2R	16.000 406.4	18.000 457.2	16.554 420.5	17.602 447.1	124060	45250	310130	113130	5.579
QG 180 XPO 2R	18.000 457.2	20.000 508.0	18.554 471.3	19.602 497.9	138640	48720	346620	121840	6.214
QG 200 XPO 2R	20.000 508	22.000 558.8	20.554 522.1	21.602 548.7	153220	52100	383070	130240	7.167

Normally imported as QG 120 XPO 2R A (AISI 52100 steel; Brass snapover cage, ABEC 1, 0.000-0.005” internal clearance)

Equivalent to KAYDON JG XPO Series

QCB BEARINGS are exclusively distributed by

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